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DATE MAILED: 07/28/2009

## NOTICE OF ALLOWANCE AND FEE(S) DUE

22879 7590 07/28/2009 HEWLETT PACKARD COMPANY P O BOX 272400, 3404 E. HARMONY ROAD INTELL FCTUAL PROPERTY ADMINISTRATION

FORT COLLINS, CO 80527-2400

EXAMINER

QUIETT, CARRAMAH J

ART UNIT PAPER NUMBER

2622

 APPLICATION NO.
 FILING DATE
 FIRST NAMED INVENTOR
 ATTORNEY DOCKET NO.
 CONFRMATION NO.

 10772\_165
 02/04/2004
 Brad R. Larson
 2003/4257-1
 5183

TITLE OF INVENTION: DIGITAL CAMERA AND METHOD FOR IN CREATING STILL PANORAMAS AND COMPOSITE PHOTOGRAPHS

| APPLN. TYPE    | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE   |
|----------------|--------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | NO           | \$1510        | \$300               | \$0                  | \$1810           | 10/28/2009 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT, PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FIEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

# Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

| appropriate. All further<br>indicated unless corrects<br>maintenance fee notifica  | correspondence includir<br>ed below or directed oth<br>tions.  | ng the Patent, advance on<br>herwise in Block 1, by (a  | rders and notification of r<br>a) specifying a new corres   | naintenance fees wil<br>pondence address; a  | ll be m  | nailed to the current<br>(b) indicating a sepa  | correspondence address as<br>rate "FEE ADDRESS" for  |
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|  | ENCE ADDRESS (Note: Use Bi   | ock 1 for any change of address)  | nane  | e: A certificate of m<br>s) Transmittal. This<br>ers, Each additional<br>e its own certificate of                  | naner  | such as an assignme   | r domestic mailings of the<br>or any other accompanying<br>nt or formal drawing, must  |
| P O BOX 27240<br>INTELLECTUA   | 7590 07/28<br>ACKARD COMPA<br>00, 3404 E. HARMO<br>AL PROPERTY 2400  | ANY<br>ONY ROAD   | Lbe   | Certi  | ficate   | of Mailing or Trans   | nission<br>deposited with the United<br>t class mail in an envelope<br>above, or being facsimile<br>ate indicated below.                         |
| FORT COLLIN  | S, CO 80527-2400   |   |   |  |  |   | (Depositor's name)   |
|  |  |   | <u> </u>  |  |  |   | (Signature)  |
|  |  |   |   |  |  |   | (Date)   |
| APPLICATION NO.  | FILING DATE  |   | FIRST NAMED INVENTOR  |  | ATTOR  | NEY DOCKET NO.  | CONFIRMATION NO.   |
| 10/772,165<br>TITLE OF INVENTION   | 02/04/2004<br>i: DIGITAL CAMERA /  | AND METHOD FOR IN   | Brad R. Larson<br>CREATING STILL PANC   | ORAMAS AND COM   |  | 00314257-1<br>TE PHOTOGRAPHS  | 5183   |
| APPLN. TYPE  | SMALL ENTITY   | ISSUE FEE DUE   | PUBLICATION FEE DUE   | PREV. PAID ISSUE   | FEE  | TOTAL FEE(S) DUE  | DATE DUE   |
| nonprovisional   | NO   | \$1510  | \$300   | \$0  |  | \$1810  | 10/28/2009   |
| EXAM   | IINER  | ART UNIT  | CLASS-SUBCLASS  | ]  |  |   |  |
| QUIETT, CA   | ARRAMAH J  | 2622  | 348-208140  |  |  |   |  |
| "Fee Address" ind<br>PTO/SB/47; Rev 03-0<br>Number is required.  3. ASSIGNEE NAME A  | ondence address (or Cha<br>B/122) attached.<br>ication (or "Fee Address<br>22 or more recent) attach<br>ND RESIDENCE DATA                                  | nge of Correspondence "Indication form ed. Use of a Customer A TO BE PRINTED ON 2   | 2. For printing on the p (1) the names of up to or agents OR, alternativ (2) the name of a singl registered attorney or a 2 registered patent atto listed, no name will be THE PATENT (print or typ data will appear on the p | 3 registered patent<br>vely,<br>e firm (having as a r<br>tgent) and the names<br>meys or agents. If no<br>printed. | members of up<br>o name                          | ra 2to  | ocument has been filed for   |
| (A) NAME OF ASSIG  | GNEE   | categories (will not be pr  | (B) RESIDENCE: (CITY  | and STATE OR CO  | OUNTE  | RY)   | up entity 🚨 Government   |
| 4a. The following fee(s)  Issue Fee Publication Fee (N   | vo small entity discount p   |   | b. Payment of Fee(s): (Plea A check is enclosed. Payment by credit car The Director is hereby overpayment, to Depo  | d. Form PTO-2038   | is attac   | hed.  |  |
|  | s SMALL ENTITY state   | is. See 37 CFR I.27.  | ☐ b. Applicant is no lon  |  |  |   |  |
| NOTE: The Issue Fee an<br>interest as shown by the   | d Publication Fee (if req<br>records of the United Sta   | uired) will not be accepted<br>tes Patent and Trademark   | d from anyone other than t<br>Office.   | he applicant; a regist   | ered at  | torney or agent; or th  | e assignee or other party in   |
| Authorized Signature   |  |   |   | Date   |  |   |  |
| Typed or printed nam   |  |   |   | Registration No  |  |   |  |
| This collection of inform<br>an application. Confiden<br>submitting the complete<br>this form and/or suggesti<br>Box 1450, Alexandria, V<br>Alexandria, Virginia 223 | nation is required by 37 C<br>tiality is governed by 35<br>d application form to the<br>ions for reducing this but<br>'irginia 22313-1450. DC<br>k13-1450. | FR 1.311. The informatic<br>U.S.C. 122 and 37 CFR<br>USPTO. Time will vary<br>rden, should be sent to the<br>O NOT SEND FEES OR ( | on is required to obtain or r<br>1.14. This collection is est<br>depending upon the indiv<br>e Chief Information Office<br>COMPLETED FORMS TO   | etain a benefit by the<br>imated to take 12 mi<br>idual case. Any con<br>er, U.S. Patent and T<br>D THIS ADDRESS.  | e public<br>inutes t<br>iments<br>radema<br>SEND | c which is to file (and<br>to complete, includin<br>on the amount of tir<br>ark Office, U.S. Depa<br>TO: Commissioner | by the USPTO to process)<br>g gathering, preparing, and<br>ne you require to complete<br>utment of Commerce, P.O.<br>for Patents, P.O. Box 1450, |

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OMB 0651-0033 PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.



## UNITED STATES PATENT AND TRADEMARK OFFICE

#### NITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Offic Address: COMMISSIONER FOR PATENTS

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| Γ                     | APPLICATION NO. FILING DATE          |                   | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------------|--------------------------------------|-------------------|----------------------|---------------------|------------------|
| 10/772,165 02/04/2004 |                                      | 02/04/2004        | Brad R. Larson       | 200314257-1         | 5183             |
|                       | 22879 75                             | 590 07/28/2009    |                      | EXAM                | UNER             |
|                       | HEWLETT PAC                          | KARD COMPANY      | QUIETT, CARRAMAH J   |                     |                  |
|                       |                                      | 3404 E. HARMONY I |                      | ART UNIT            | PAPER NUMBER     |
|                       | INTELLECTUAL PROPERTY ADMINISTRATION |                   |                      | 2622                |                  |

I'ELLECTUAL PROPERTY ADMINISTRATION FORT COLLINS, CO 80527-2400

DATE MAILED: 07/28/2009

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 729 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 729 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

# Notice of Allowability

| Application No.    | Applicant(s)    |
|--------------------|-----------------|
| 10/772,165         | LARSON, BRAD R. |
| Examiner           | Art Unit        |
| Carramah J. Quiett | 2622            |

— The MAILING DATE of this communication appears on the cover sheat with the correspondence address-All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☑ This communication is responsive to 03/23/2009.

2. ☐ The allowed claim(s) is/are 1-21.

| 2.  The allowed claim(s) is/are <u>1-21.</u>  |
|---|
| B. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  |
| a) ☐ All b) ☐ Some* c) ☐ None of the:   |
| <ol> <li>Certified copies of the priority documents have been received.</li> </ol>  |
| 2. Certified copies of the priority documents have been received in Application No  |
| 3.  Copies of the certified copies of the priority documents have been received in this national stage application from the   |
| International Bureau (PCT Rule 17.2(a)).  |
| * Certified copies not received:  |
| Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONNENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. |
| A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF   |

A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

 CORRECTED DRAWINGS (as "replacement sheets") must be submitted.

(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.

(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of

6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the

DEPOSIT OF arrayor INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note that attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

| Attachment(s) |  |
|---------------|--|
|               |  |

1. ☑ Notice of References Cited (PTO-892)

5. ☐ Notice of Informal Patent Application

2. Notice of Draftperson's Patent Drawing Review (PTO-945). 6. Interview Summery (PTO-413).

Paper No./Mail Date

of Biological Material 9. ☐ Other \_\_\_\_.

/Lin Ye/ Supervisory Patent Examiner, Art Unit 2622 Application/Control Number: 10/772,165 Page 2

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## DETAILED ACTION

#### Response to Amendment

The amendment(s), filed on 07/07/2008, have been entered and made of record. Claims
 1-21 are pending.

## Response to Arguments

Applicant's Appeal Brief filed on 03/23/2009, with respect to the rejection(s) of claim(s)
 1-21 under Anderson (U.S. Pat. #6,657,667) have been fully considered and are persuasive.
 Therefore, the rejection has been withdrawn.

### Allowable Subject Matter

- Claims 1-21 are allowed.
- 4. The following is an examiner's statement of reasons for allowance:

Claim 1 is allowed because the prior art does not teach or fairly suggest a digital camera system comprising:

a processing algorithm that runs on the processing circuitry that:

uses video object tracking to track the overlaid indicia that indicate the overlapping area within the second photograph as the overlaid indicia moves over the image displayed on the display as the camera is moved to a position to take the second photograph, which overlaid indicia is used to align and place the second photograph relative to the first photograph, in combination with the other claimed elements.

Claims 2-10 are allowed because claims 2-10 depend from claim 1.

Claim 11 is allowed because the prior art does not teach or fairly suggest a method for use with a digital camera having a lens, an image sensor for sensing an image viewed by the lens, Art Unit: 2622

a display for displaying the image sensed by the image sensor, a storage device for storing the image sensed by the image sensor, and processing circuitry coupled to the display, lens, image sensor, and storage device, the method comprising the steps of:

using video object tracking to track the overlaid indicia that indicate the overlapping area within the second photograph as the overlaid indicia moves over the image displayed on the display as the camera is moved to a position to take the second photograph, which overlaid indicia is used to align and place the second photograph relative to the first photograph, in combination with the other claimed elements.

Claims 12-18 are allowed because claims 12-18 depend from claim 11.

Claim 19 is allowed because the prior art does not teach or fairly suggest a method for use with a digital camera having a lens, an image sensor for sensing an image viewed by the lens, a display for displaying the image sensed by the image sensor, a storage device for storing the image sensed by the image sensor, a user interface, and processing circuitry coupled to the display, lens, image sensor, and storage device, the method comprising the steps of:

(6) using video object tracking to track the transparent displayed image as the transparent displayed image moves across the display in a direction that is opposite to the direction of the subsequent photograph until the transparent displayed image overlaps a predetermined portion of the subsequent photograph that is to be taken, which overlap is used to align and place the subsequent photograph relative to the photograph, in combination with the other claimed elements.

Claim 20 is allowed because claim 20 depends from claim 1.

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Claim 21 is allowed because the prior art does not teach or fairly suggest a digital camera system comprising:

processing means coupled to the display, lens, image sensor, and storage device hat embodies a processing algorithm that:

uses video object tracking to track the overlaid indicia that indicate the overlapping area within the second photograph as the overlaid indicia moves over the image displayed on the display as the camera is moved to a position to take the second photograph, which overlaid indicia is used to align and place the second photograph relative to the first photograph, in combination with the other claimed elements.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Soga et al. (US Pat. 806906)

The composition of a photograph to be obtained is

decided based upon an assistance frame that can be

Akasawa et al. (U.S. Pat. #6,867,801) Panoramic image processing which acquires the right

end portion of a first sensed image, displays the acquired image along with the image to be captured.

Art Unit: 2622

Teo (US Pat. 7,292,261) A virtual reality camera that overlays a vertical strip

from a previous frame onto the current field of view

seen on a display.

Stavely et al. (US Pat. 7,349,020) Displaying image composition templates with preview

images.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Carramah J. Quiett whose telephone number is (571)272-7316. The examiner can normally be reached on 8:00-5:00 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Ometz can be reached on (571) 272-7593. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Lin Ye/ Supervisory Patent Examiner, Art Unit 2622

/C. J. Q./ Examiner, Art Unit 2622 July 2, 2009